

UPDATE ON NOAA'S VIRTUAL LAB

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Director NOAA's VLab

<https://vlab.ncep.noaa.gov/>

April 14, 2015

NOAA Testbed and Proving Ground Workshop

VLab is Rehosted at the NOAA Center for Weather and Climate Prediction in College Park, Maryland December 2014

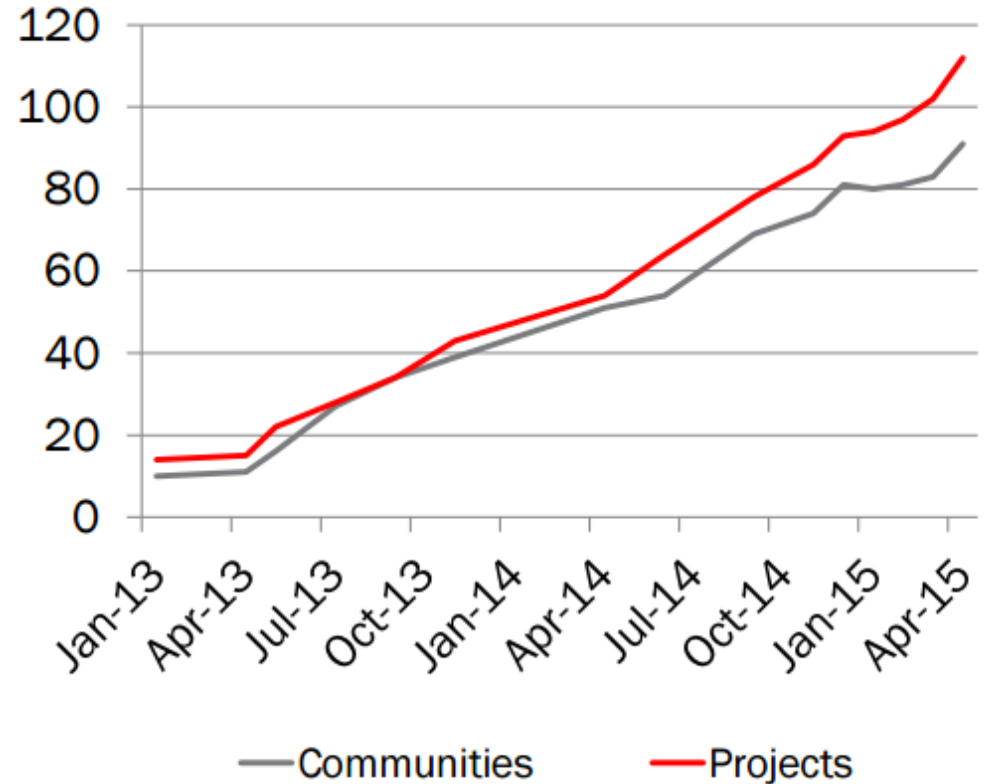
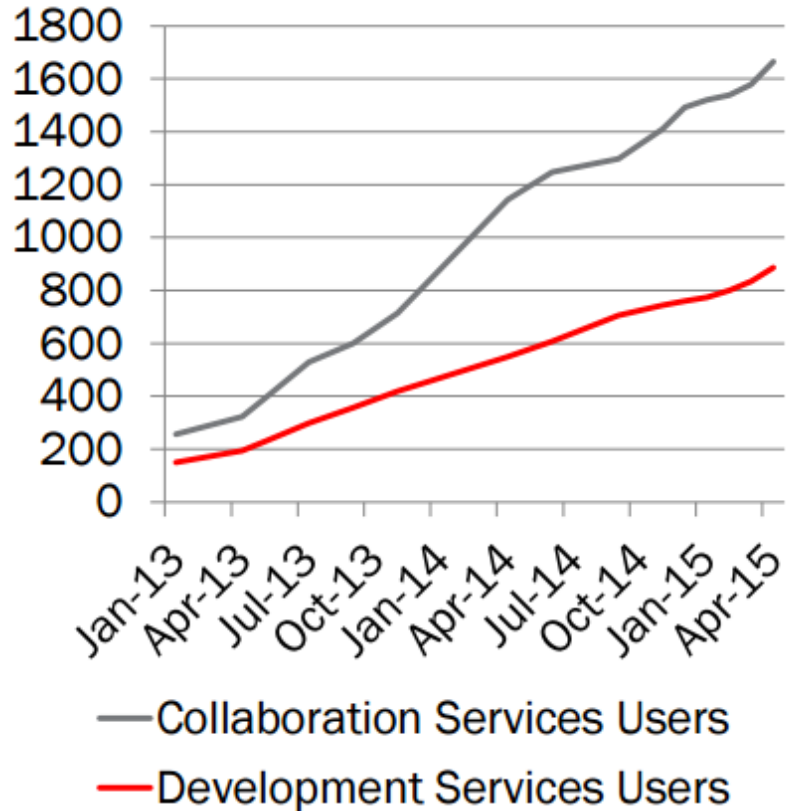
2



**NOAA Center for Weather and
Climate Prediction**

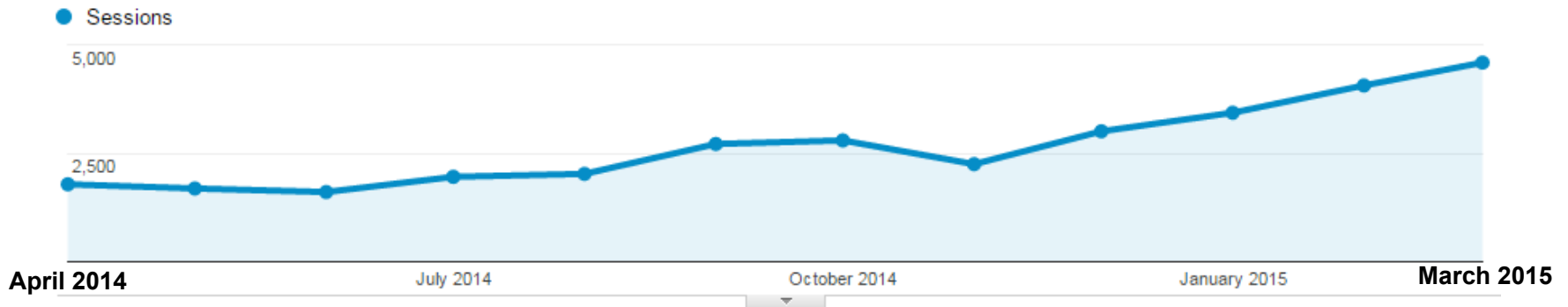
Growth of VLab

3



Growth of VLab

4



Sessions

31,900



Users

3,954



Pageviews

292,043



Pages / Session

9.15



Avg. Session Duration

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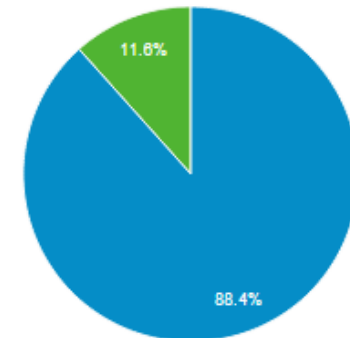


Bounce Rate

21.17%



■ Returning Visitor ■ New Visitor



Upcoming

5

- NOAA Projects Repository in VLab
- VLab Improvement Team (VIT)
- Centralized Development and Testing Environment

What is the NOAA Projects Repository in VLab?

It is a web interface that allows:

- 1) NOAA employees to investigate and compare R&D projects active in the agency to improve collaboration and R2A situational awareness
- 2) Allow the owners of NOAA R&D projects to input their project data to a central location in compliance with NAO 216-105 and the FY15 R2A performance measure pilot.

“R2A” Defined

The transition of R&D to **APPLICATION** (R2A) means either:

R2O:

The transition to **OPERATIONS** (to NOAA operations or to the operations of external partners and agencies)

R2C:

The transition to **COMMERCIAL** applications (via patents, licenses, CRADAs)

R2U:

The transition to **OTHER USES** (e.g. policy and regulations, resource management, public education and outreach)

Transition Models:

R2O: “Pass the Baton”



R2C: “Tech Transfer”

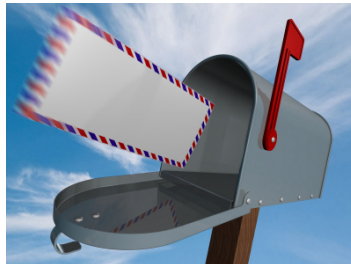


NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OCEANIC AND ATMOSPHERIC RESEARCH

TECHNOLOGY PARTNERSHIPS OFFICE

Promoting Partnership & Commercialization of NOAA Technology and Innovations

R2U: “Letter in the Mail” or “Message in a Bottle”



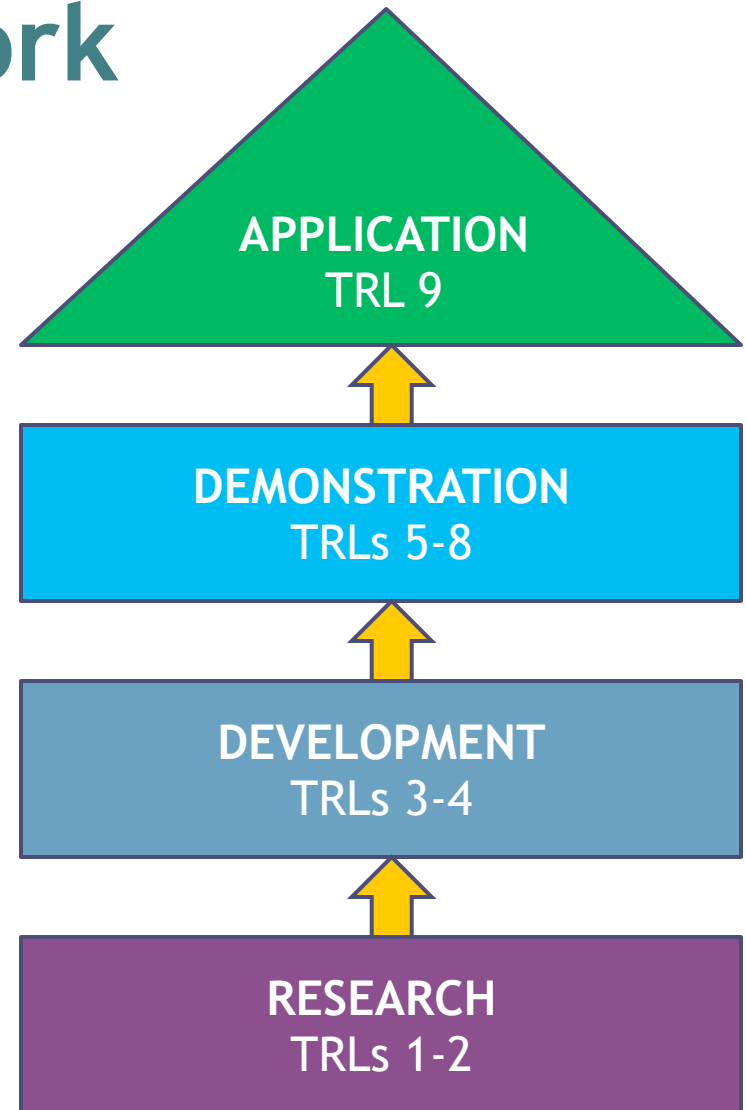
Measuring the Performance of NOAA's R&D 'Ecosystem' with respect to R2A

NOAA's R&D 'Ecosystem':

- 12,000 employees
- 5 Line Offices
- 7 Research Labs
- 16 Cooperative Institutes
- 100s of Operational Systems
- 100s R&D Units

Proposed Framework

- Projects move through four life-cycle phases on their way to (and including) application
- These four phases can be aligned with standard Technical Readiness Level (TRL) maturity index
- Applications can be of three different types: Operations, Commercial applications, or Other uses (see prior slide)
- The four phases (and underlying TRLs) may have variants (with more specific definitions), based on type of application, or domain of R&D



Effective R2A

APPLICATION
TRL 9



100%
(1,000)

DEMONSTRATION
TRLs 5-8



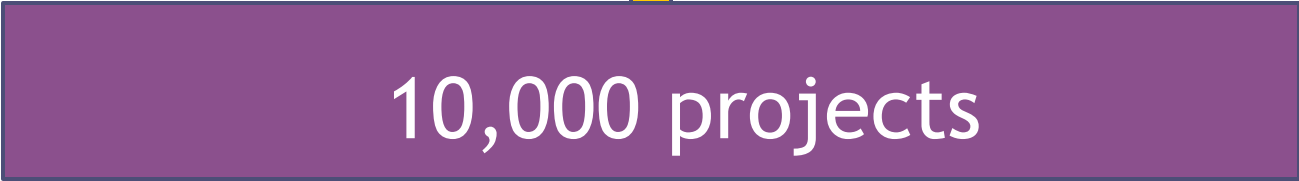
50%
(1,000)

DEVELOPMENT
TRLs 3-4

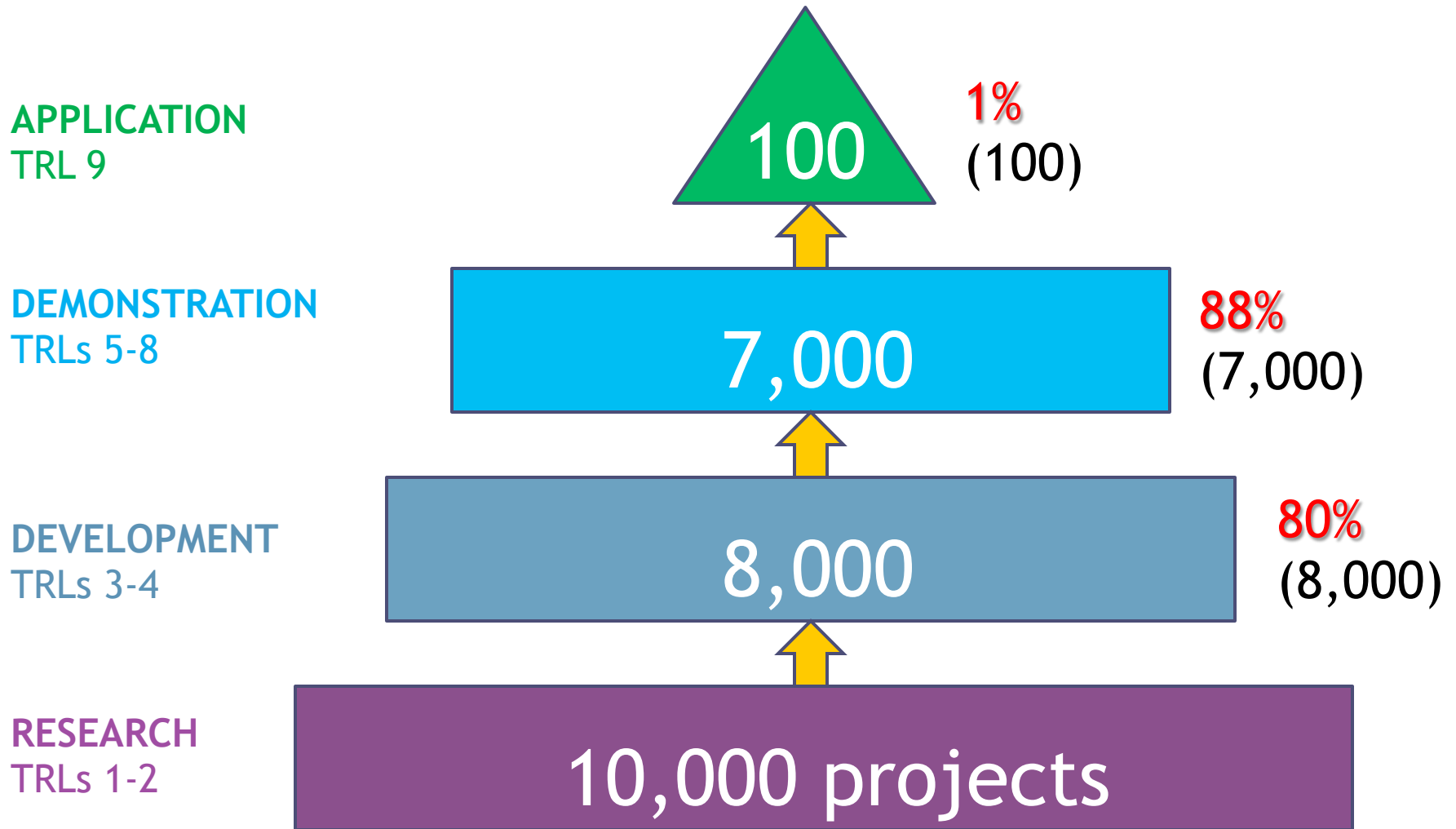


20%
(2,000)

RESEARCH
TRLs 1-2



Ineffective R2A




NOAA Projects Repository Portlet

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NOAA Projects Repository

Projects Repository


 Help ▾ + Add Project 🔍 Toggle Advanced Search Sort By ▾ Manage ▾ Dynamic Reports ▾

Project Name ▲	Description	R&D Source Organization ⇅	Transition Partner (Sending) Organization ⇅	Applying (Receiving) Organization ⇅	R2O/R2C/R2U ⇅	Transition Plan	Transition Date ⇅	TRL ⇅	Target System ⇅	Attached Documents	Status
A Test of Workflow Kickoff	Testing when workflow is started. Changed this but did not save page.	NWS/OST	OAR/NSSL	ESRL2	R2U			9	AWIPS	Attached Documents	Status: Completed
A very new project so I can see approval email	test	NWS/MDL	NWS/MDL	NWS/MDL	R2O			2	AWIPS		Status: Active
Another project	text	NWS/OST	NWS/OST	NWS/OST	R2O			4	AWIPS		Status: Active
Big weather project	This is a big weather project with lots of stuff	DoD/JTWC	N/A	DoD/JTWC	R2C		01/30/2015	7		Attached Documents	Status: Active

Get a Live Demo of VLab!
from VLab Support Team Members
Tom Filiaggi and Mike Giebler

QUESTIONS?